

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A power generation apparatus comprising:
 - a fuel cell including an anode;
 - a reforming module, wherein the reforming module is adapted to reform hydrocarbon fuel into hydrogen and other components, and to separate said hydrogen from said other components, the apparatus being arranged so that said hydrogen is fed from the reforming module to the anode of the fuel cell;
 - a recycling arrangement to recycle hydrogen in ~~the~~ an outflow stream of the anode of the fuel cell back to the anode; and
 - a controlling arrangement to control the amount of hydrogen recycled and to tap off, externally of the power generation apparatus for use in a separate process, hydrogen that is not recycled.
- 2-31. (cancelled)
32. (previously presented) The apparatus as claimed in claim 1, wherein the apparatus is arranged such that substantially nothing except hydrogen is fed to the anode of the fuel cell.
33. (previously presented) The apparatus as claimed in claim 1, comprising a removal arrangement to remove water from the outflow stream of the anode of the fuel cell.
34. (previously presented) The apparatus as claimed in claim 1, wherein the reforming module is further adapted to separate carbon dioxide and to output a stream of said carbon dioxide.

35. (currently amended) The apparatus as claimed in claim 1, wherein the reforming module is further adapted to absorb carbon dioxide or ~~sequestering it~~ to sequester carbon dioxide into a solid.

36. (previously presented) The apparatus as claimed in claim 1, wherein the reforming module comprises means for absorbing the carbon dioxide by a carbonation reaction with a metal oxide or hydroxide to produce a metal carbonate.

37. (previously presented) The apparatus as claimed in claim 1, which also comprises a desorption module adapted to allow the release of carbon dioxide.

38. (previously presented) The apparatus as claimed in claim 1, wherein the reforming module is thermally integrated with the fuel cell.

39. (previously presented) The apparatus as claimed in claim 37, wherein the desorption module is thermally integrated with the fuel cell.

40. (cancelled)

41. (new) The apparatus as claimed in claim 1, wherein the recycling arrangement includes a recycle path connecting an outlet of the fuel cell to an inlet of the fuel cell and the controlling arrangement is fluidly connected in the recycle path between the outlet and the inlet.

42. (new) The apparatus as claimed in claim 41, wherein the controlling arrangement includes a valve.

43. (new) The apparatus as claimed in claim 42, wherein the valve is a three-way valve.

44. (new) The apparatus as claimed in claim 43, further comprising a condenser connected to the three-way valve.

45. (new) The apparatus as claimed in claim 1, wherein the controlling arrangement includes a valve.
46. (new) The apparatus as claimed in claim 45, wherein the valve is a three-way valve.
47. (new) The apparatus as claimed in claim 46, further comprising a condenser connected to the three-way valve.
48. (new) A power generation apparatus comprising:
 a fuel cell including an anode;
 a reforming module, wherein the reforming module is adapted to reform hydrocarbon fuel into hydrogen and other components, and to separate said hydrogen from said other components, the apparatus being arranged so that said hydrogen is fed from the reforming module to the anode of the fuel cell;
 a recycling arrangement to recycle hydrogen in an outflow stream of the anode of the fuel cell back to the anode; and
 a controlling arrangement to control an amount of hydrogen recycled and to tap off, externally of the power generation apparatus, hydrogen that is not recycled for use in a separate process.
49. (new) The apparatus as claimed in claim 48, wherein the recycling arrangement includes a recycle path connecting an outlet of the fuel cell to an inlet of the fuel cell and the controlling arrangement is fluidly connected in the recycle path between the outlet and the inlet.
50. (new) The apparatus as claimed in claim 49, wherein the controlling arrangement includes a valve.
51. (new) The apparatus as claimed in claim 50, wherein the valve is a three-way valve.